

# SHIPMARTECH

## NEWSLETTER 5. February 2023 – August 2023

The Erasmus+ KA2 strategic partnership project [SHIPMARTECH](#) aims at upgrading and harmonisation of Master's-level courses in Marine Engineering and Naval Architecture through cooperation of four universities: [Tallinn University of Technology](#) in Estonia, [University of Zagreb](#) in Croatia, [University of the Aegean](#) in Greece, and [University of Naples Federico II](#) in Italy.

### JOINT STAFF TRAINING EVENT IN GREECE

On the last days of May, members of the project partnership gathered in Piraeus, Greece to an additional joint staff-training event hosted by the University of the Aegean. There was a discussion on developing of test question pool for electronic self-check tests and quizzes during and after the project for using in electronic courses of several teachers. There was an opportunity to meet and network with people from the University of the Aegean and from Greek maritime sector in order to extend contacts and get inspiration for initiation of new collaboration ideas in the context of Education 4.0. At a peer-to-peer teaching skills workshop teachers demonstrated their finalised courses and exchanged of practical experience and tips in using some new software solutions and e-learning tools.

### MARITIME EDUCATION 4.0. PROJECT MULTIPLIER EVENT IN GREECE

The project SHIPMARTECH multiplier event organised by the University of the Aegean took place in the Hellenic Maritime Museum with several participants attending the event online. Dr Ioannis Dagkinis, UAegean and Mikloš Lakatoš, TalTech presented the project and its results. Prof. Nikitas Nikitakos UAegean and Evanthia Antoniou, IT Technical Education, introduced the concept of Maritime Education 4.0. Dr. Gregory Giovanof talked about education for marina's management. The event ended with open discussion about the future of maritime education and brainstorming of new projects ideas.

### PROJECT FINAL MEETING AND JOINT STAFF TRAINING EVENT IN KUESSAARE, ESTONIA

The final project meeting was held on July 17-18, 2023 in TalTech Kuressaare College, on Saaremaa Island. The focus was on monitoring of the finalisation process of the IO. All project partners demonstrated their e-courses that were developed during the project. Some professors were physically present in Kuressaare, others presented their work via MS Teams. Course development was practically completed by July. The components that still needed attention were harmonization of the visual design of some courses and availability of a few tools (student feedback, student progress and student self-evaluation tools), as well as short introductory course videos.

For digital security reasons universities have restricted public access to their e-courses. Access to the e-courses other than MOOCs is given to the students/teachers and visiting/exchange student of this certain university only. To present the courses developed in the project and to give an overview of the courses to the public the introductory posters and videos of the courses, as well as short course descriptions are made available via project web page.



The staff-training event started with a study trip to the leading ship building sector enterprise in Estonia - Baltic Workboats shipyard at Nasva and contact meeting with the industry representatives. In peer-to-peer hands-on sessions, experiences with use of some specific e-learning solutions and Moodle and video editing tools were digital tools were shared. Teachers could try and practice new solutions on preparing the materials needed for presenting the courses developed during the project. Preparation of short course introductory videos was practiced. On the closing day of the event, there was a workshop on implementation of CDIO principles in curriculum and course development supervised by Mihhail Afanasjev, TalTech Kuressaare College.



### **MARINE INDUSTRY VISION SEMINAR AND SHIPMARTECH MULTIPLIER EVENT AT VIINISTU, ESTONIA**

The Association of Estonian Marine Industries and Tallinn University of Technology Kuressaare College organised a joint seminar on developments and prospects in marine technology innovation and education at Viinistu Art Harbour near Tallinn, on 24-25 August 2023.

The opening day of the event was dedicated to the topics of the sustainability report related to the green transition. New requirements for marine engineering competence were introduced, which are largely related to the development of new technologies.

The creators of Estonia's first marine technology master's program talked about the history and structure of the program. In the group work, teams analysed the competencies needed in industry that a graduate of the Master's programme could have. The expectations of Estonian industry for university graduates were mapped and compared with previous studies at the Massachusetts Institute of Technology (MIT) and the University of Belfast (QUB). It was found that in a comparison of countries, the so-called soft skills: personal attitudes, ethics, communication or teamwork skills are rated lower in Estonia. On the other hand, production and management skills are valued much more highly than in the US or Ireland.

On August 25, at the multiplier event of the Erasmus+ project SHIPMARTECH concentrating on dissemination of the results of the project, the project manager Tõnis Tõns and lecturers Mihhail Afanasjev and Mikloš Lakatoš gave an overview of the project and the marine engineering master's



level courses developed or completed during it. Posters introducing the courses were displayed in the room.

At the panel discussion moderated by prof. Mihkel Kõrgesaar, professors Jani Romanoff (Aalto University, Finland), Roger Skjetne (Norwegian University of Technology), Viktor Senčila (Klaipeda University, Lithuania) and Fjodor Sergejev (TalTech) compared the marine engineering curricula of the Baltic and Nordic countries and talked about the developments and prospects of marine technology education in Europe. There was a discussion about whether master's level education should become narrower or broader. In addition, it was discussed how universities ensure that their master's programs correspond to the needs of the country's industry and how often this is evaluated. All participants agreed that the new master's program in marine engineering is an important step for Estonia - the maritime industry is a significant part of the Estonian economy and it helps train future specialists. The day ended with group work, the goal of which was to get ideas for long-term marine engineering student projects that would provide opportunities for better motivation and involvement of students.



*SHIPMARTECH multiplier event "Marine Technology Education Today and Tomorrow"*